BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : **Emergency works in ward no. 08, kodigehalli**

Estimated Cost : **30.00 Lakhs**

Head of Account : **P-1771**

Job Code : **008-20-000078**

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE, BYATRARYANAPURA DIVISION

Name of the work: **Emergency works in ward no. 08, kodigehalli**

Estimate Cost: Rs. 3000000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	Removing and resetting of footpath slab (Page No. 270, Item No. 37.56, PWD SR 18-19)								
	2nd main road Maruthinagara-Bhadrappa layout, right side opp Shathinikethana school	sqm	1	127.80	1.20		153.36		
	Devinagara cross roads	sqm	8	74.00	0.90		532.80		
	Lottegollahalli cross roads	sqm	10	90.00	0.90		810.00		
	Sub total	sqm					1496.16		
	Deduct 10% for broken slabs	sqm					-149.61		
	Net quantity	sqm					1346.55	208.82	281187.00
	Basic Rate	197.00							
	Area Weightage @ 6%	11.82							
	Total	208.82							
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. - reinforced cement concrete grade M20 and above (PWDSR 2018-19, P.139, I.18.19)								
	Damaged culverts	cum	6	6.80	1.80	0.23	16.89	1684.34	28449.00
	Basic Rate	1589.00							
	Area Weightage @ 6%	95.34							
	Total	1684.34							
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. - rubble stone masonry in cement mortar (PWDSR 2018-19, P.140, I. 18.27)								
	Damaged culverts	cum	12	6.80	0.45	0.70	25.70	372.06	9562.00
	Basic Rate	351.00							
	Area Weightage @ 6%	21.06							
	Total	372.06							
4	KSRRB 300-2 : Earth work excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 (Page No. 143, Item No. 19.1, PWD SR 2018-19)								
	For desilting of drain	Cum			av.				
	2nd main road Maruthinagara-Bhadrappa layout, right side opp Shathinikethana school	Cum	1	127.80	0.90	0.60	69.01		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Devinagara cross roads	Cum	8	74.00	0.45	0.50	133.20		
	Lottegollahalli cross roads	Cum	10	90.00	0.45	0.50	202.50		
	culverts	Cum	6	6.80	1.80	1.00	73.44		
	Pot hole filling								
	various roads of kodigehalli	Cum	200	3.00	2.50	0.20	300.00		
	For dug wells	Cum	4	0.79	1.20	9.14	41.32		
		Cum					819.47	137.80	112923.00
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	137.80							
5	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 Kgs using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (Page No. 13, Item No. 4.3 PWD SR 2018-19)								
	culverts	Cum	6	6.80	1.80	0.15	11.01		
		Cum					11.01	5408.12	59543.00
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	5408.12							
6	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1: 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. - Available stones (PWDSR 2018-19, P.No.255, I No.34.8.2)								
	For SSM drain	Cum	40% of qty vide item No. 4				10.28		
		Cum					10.28	3287.73	33798.00
	Basic Rate	4596.00							
	Less size stone recurred (105 nos/cum) 105*11.86 (P.No. III, sl no. 63)	1245.30							
	Deduct 10% overhead chargers	124.53							
	Deduct 10% contractors profit	124.53							
	Sub Total	3101.64							
	Area Weightage @ 6%	186.09							
	Total	3287.73							
7	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1: 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. - **New stones** (PWDSR 2018-19, P.No.255, I No.34.8.2)								
	culverts	Cum	12	6.80	0.45	1.20	44.06		
	Deduct qty vide item No. 9	Cum					-10.28		
		Cum					33.78	4871.76	164568.00
	Basic Rate	4596.00							
	Area Weightage @ 6%	275.76							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	4871.76							
8	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2018-19, P No.256, I No.34.13.2)								
	culverts	Sqm	12	6.80		1.20	97.92		
		Sqm					97.92	150.52	14739.00
	Basic Rate	142.00							
	Area Weightage @ 6%	8.52							
	Total	150.52							
9	Providing and laying in position plain cement concrete of mix 1:2:4 with cement at 240 kg, with 20mm and down size graded granite metal coarse aggregate at 0.69 cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted for coping including cost of all materials, labour, HOM of machinery, curing, complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2018-19, P.No.255, I.No.34.11)								
	culvert-coping	Cum	12	6.80	0.45	0.10	3.67		
	culvert-vent	Cum	6	6.80	0.60	0.10	2.44		
	culvert-ramps	Cum	12	6.80	0.45	0.15	5.50		
		Cum					11.61	5599.98	65016.00
	Basic Rate	5283.00							
	Area Weightage @ 6%	316.98							
	Total	5599.98							
10	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. - 250 mm thick (Approved data rate enclosed)								
	culverts	Sqm	6	6.80	1.80		73.44		
		Sqm					73.44	5418.0	397898.00
11	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. - 100 mm thick (Approved data rate enclosed)								
	15% of broken slabs	Sqm	1				149.61		
							149.61	2337.0	349639.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
12	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications (Page No. 158, Item No. 20.18, PWD SR 2018-19)								
	Pot hole filling								
	various roads of kodigehalli	Cum	200	3.00	2.50	0.150	225.00		
							225.00	2001.28	450288.00
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	2001.28							
13	Filling Pot-holes and Patch Repairs with Bituminous Concrete, 40 mm KSRRB M3000-5. Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per clause 500.3, filling back the pot holes with hot bituminous material as per clause 500.4, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2 complete as per specifications (PWDSR 2018-19, I. 35.5, P.259)								
		Sqm	200	3.00	2.50		600.00	365.70	219420.00
	Basic Rate	345.00							
	Area Weightage @ 6%	20.70							
	Total	365.70							
14	Supply of drinking water through water tankers of capacity 5000 litres, hiring of water tankers, hire charghes of tractor 40 HP including operator and fuel, procurement of water, engaging heavy mazdoor with all leads and lifts as directed by the Engineer in charge of the work								
	Data rate as arrived in Ganesha immersion estimate file 2021	No.	600				600.00	629.24	377544.00
15	RCC pjipes NP2 900 mm dia including collars as directed including cost of all materials, labour, transportation, all leads and lifts etc (PWDSR 2018-19, sl No. 593, Page XXIII)								
		Rm	9.00				9.00	2444.92	22004.00
16	20mm jelly around dug well	Cum	4	0.79	0.30	9.14	2.58	1091.43	2816.00
17	Reinforced Cement concrete cover slab of 1.20m dia as directed including cost of all materials, labour, transportation, all leads and lifts etcconcrete cover slab								
	* Data Rate to be enclosed	No.	4				4.00	2500.00	10000.00
18	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)								
	Qty vide item No. 3*0.85 and 12*0.075	Cum					696.55	106.00	73834.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic rate for haulage of materials as per item no.17.4 page 134) Rs. 2.50								
	Average weight of earth 1.28 tonne / kg for 2.50X1.28X10.00=6.40	32.00							
	Add loading and unloading Vide item no.17.1 P.no.134	68.00							
		100.00							
	Area Weightage @ 6%	6.00							
	Total	106.00							
17	Sub Total-1								2673228.0
18	Add GST charges at 12%								320788.00
19	Miscellaneous & Rounding off							L/S	5984.00
	Estimated Total Cost								3000000.00

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.
5 This work has not been taken previously under any other grant.

Junior Engineer
Ward no. 8
Kodigehalli

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

Administrative Approval
Accorded For Rs. 30 lakhs
Head of A/C P-1771
CER NO :100/21-22 Dt:14/02/2022

TA CE (YNK)

Rs. 30 lakhs
P-1771
89/21-22 Dt:14/02/2022